***COMPLETE IN NOTEBOOK! COPY ALL FIGURES!***

Area and Perimeter of Trapezoids

**Geometry**

**READ ALL DIRECTIONS! Failure to show** ALL WORK **and follow** all directions COMPLETELY **will result in LaSalle.**

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| 1. In your notebook define:  * Trapezoid * Isosceles trapezoid * Bases of a trapezoid |
| 1. a) Do you think you can find the area of a trapezoid the same way you find the area of a parallelogram and rectangle? Explain why or why not?  c) How might we divide a trapezoid into triangles?  d) How is finding the area of a trapezoid related to finding the area of a triangle? |
| 1. Copy the figures into your notebook and split the trapezoids into RIGHT triangles. |
| 1. Find the perimeter of the trapezoids below: ../../../../Desktop/Screen%20Shot%202016-11-06%20at%202.28.11%20PM.pn |
| 1. Find the area of the trapezoids by breaking them into triangles.  **../../../../../Desktop/Trapezoid/Diagonal_1.png../../../../../Desktop/Trapezoid/Diagonal%203.png../../../../../Desktop/Trapezoid/Diagonal2.png** |
| 1. a) Identify if each figure as a parallelogram or trapezoid  b) Find the area of the figure.  ../../../../../Desktop/Screen%20Shot%202015-10-25%20at%207.47.12%20PM../../../../../Desktop/Screen%20Shot%202015-10-25%20at%207.52.12%20PM../../../../../Desktop/Screen%20Shot%202015-10-25%20at%207.51.56%20PM |
| 1. Traezpoid ABCD is createed by A(-6,0), B(6,0), C(2,2), and D(-2,2).  a) Calculate and label the length of each side.  b) Calcuate the periemter of the trapezoid.  c) Identify the bases and height of the trapezoid. Explain how you why these bases and heights are valid.  d) Calcualte the area of the trapezoid. |
| 1. ABCD is created by A(-9,4), B(-4,-3), C(2,-4), and D(9,1).  a) Calculate an label the length of each side.  b) Calcualte the perimeter of the trapezoid. |
| 1. Karen says that quadrilateral ABCD is a trapezoid. A(-3,3), B(1,5), C(1,-1) and D(1,-5).  Do you agree or disagree with Karen? Support your answer using claim, evidence, and reasoning. |